VERIZON - NEW ENGLAND

COLLOCATION DC POWER COST STUDY TO SUPPORT THE APRIL 11, 2001 FCC FILING TRANSMITTAL NO. 1373 F.C.C. NO. 11

REDACTED VERSION

DC POWER - MONTHLY RATE NEW ENGLAND Tariff F.C.C. No. 11 Transmittal No. 1373, Workpaper 1-2

| <u>Line</u> | <u>Description</u> | Source | <u>Total</u> |
|-------------|-------------------------|-----------------------|--------------|
| 1 | Unit Investment | Cost Study | \$828.71 |
| 2 | Depreciation | Cost Study | \$51.07 |
| 3 | Cost of Capital | Cost Study | \$48.84 |
| 4 | Income Tax | Cost Study | \$19.77 |
| 5 | Other Tax | Cost Study | \$4.53 |
| 6 | Maintenance | Cost Study | \$39.82 |
| 7 | Administration | Cost Study | \$32.87 |
| 8 | Annual Direct Cost | Sum Lines 2-7 | \$196.90 |
| 9 | Monthly Cost | Line 8/12 | \$16.41 |
| 10 | Overhead Loading Factor | Commission Prescribed | 1.00 |
| 11 | Monthly Rate | Line 9 * Line 10 | \$16.41 |
| 12 | Direct Cost to Rate | Line 9/ Line 11 | 1.00 |

Demand, Costs and Rates Tariff F.C.C. No. 11 Transmittal No. 1373, Workpaper 1-3

| 1,139,400.0 |
|-------------|
| 12,153.6 |
| |
| 574,350.0 |
| 5,907.6 |
| |

REDACTED DATA - TAB 1:

Collocation Power FCC Cost Study Audit Trail: Explains where the prices (which are proprietary) can be found.

PHYSICAL COLLOCATION Bell Atlantic - New England FCC - 11

DC POWER - COST SUMMARY

| | <u>A</u> | <u>B</u> | <u>C</u> |
|----------|-------------------------------|-----------------------------|----------------------|
| LINE NO. | <u>ITEM</u> | SOURCE | MONTHLY RECURRING |
| | DC POWER PER AMP | <u> </u> | |
| 1 | LESS THAN OR EQUAL TO 60 AMPS | BA-NE, WP 1.0, PG 1, LN 11F | \$16.40 |
| 2 | GREATER THAN 60 AMPS | BA-NE, WP 1.0, PG 2, LN 11F | \$16.44 |

PHYSICAL COLLOCATION BELL ATLANTIC - NEW ENGLAND FCC - 11

| - WEIGHTED - | | |
|--------------|--------------|--|
| | - WEIGHTED - | |

| | A | В | ç | D | E | E | , G | Ħ |
|----|--------------------------------|--------------------------|----------|---------|----------|---------|---------|----------|
| | ITEM | SOURCE | BA-MA | BA-ME | BA-NH | BA-RI | BA-VT | BA-NE |
| 1 | TOTAL WEIGHTED UNIT INVESTMENT | COST STUDY | \$505.77 | \$94.39 | \$103.29 | \$79.04 | \$45.62 | \$828.12 |
| 2 | DEPRECIATION | COST STUDY | \$30.92 | \$6.00 | \$6.47 | \$4.82 | \$2.81 | \$51.03 |
| 3 | COST OF CAPITAL | COST STUDY | \$29.99 | \$5.47 | \$6.00 | \$4.69 | \$2.65 | \$48.81 |
| 4 | INCOME TAX | COST STUDY | \$12.15 | \$2.21 | \$2.43 | \$1.90 | \$1.07 | \$19.76 |
| 5 | OTHER TAXES | COST STUDY | \$1.46 | \$1.50 | \$0.21 | \$0.86 | \$0.50 | \$4.52 |
| 6 | MAINTENANCE | COST STUDY | \$26.62 | \$3.62 | \$4.37 | \$2.96 | \$2.22 | \$39.79 |
| 7 | ADMINISTRATION | COST STUDY | \$21.45 | \$3.20 | \$3.60 | \$2.89 | \$1.72 | \$32.85 |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$122.58 | \$22.00 | \$23.09 | \$18.12 | \$10.96 | \$196.76 |
| 9 | MONTHLY COST | LINE 8 / 12 | \$10.22 | \$1.83 | \$1.92 | \$1.51 | \$0.91 | \$16.40 |
| 10 | OVERHEAD LOADING FACTOR | WP 6.0, PG 1, LINE 25 | 1,0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 11 | MONTHLY RATE | LINE 9 x LINE 10 | \$10.22 | \$1.83 | \$1.92 | \$1.51 | \$0.91 | \$16.40 |
| 12 | DIRECT COST TO RATE | LINE 9 / LINE 11 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

PHYSICAL COLLOCATION BELL ATLANTIC - NEW ENGLAND FCC - 11

| | | | | | - WEIGHTED | | | |
|----|--------------------------------|--------------------------|----------|---------|------------|---------|----------------|----------|
| | A | B | Ē | Ð | Ē | E | <u>G</u> | н |
| | <u>ITEM</u> | SOURCE | BA-MA | BA-ME | BA-NH | BA-RI | BA-VT | BA-NE |
| 1 | TOTAL WEIGHTED UNIT INVESTMENT | COST STUDY | \$505.80 | \$95.32 | \$104.05 | \$79.32 | \$46.03 | \$830.51 |
| 2 | DEPRECIATION | COST STUDY | \$30.93 | \$6.06 | \$6.52 | \$4.84 | \$2.83 | \$51.18 |
| 3 | COST OF CAPITAL | COST STUDY | \$29.99 | \$5.52 | \$6.04 | \$4.71 | \$2.68 | \$48.95 |
| 4 | INCOME TAX | COST STUDY | \$12.15 | \$2.24 | \$2.45 | \$1.90 | \$1.08 | \$19.81 |
| 5 | OTHER TAXES | COST STUDY | \$1.46 | \$1.51 | \$0.21 | \$0.86 | \$0.50 | \$4.55 |
| 6 | MAINTENANCE | COST STUDY | \$26.62 | \$3.65 | \$4.40 | \$2.98 | \$2.24 | \$39.89 |
| 7 | ADMINISTRATION | COST STUDY | \$21.45 | \$3.23 | \$3.63 | \$2.90 | \$1.73 | \$32.93 |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$122.59 | \$22.21 | \$23.26 | \$18.19 | \$11.06 | \$197.31 |
| 9 | MONTHLY COST | LINE 8 / 12 | \$10.22 | \$1.85 | \$1.94 | \$1.52 | \$0.92 | \$16.44 |
| 10 | OVERHEAD LOADING FACTOR | WP 6.0, PG 1, LINE 25 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 11 | MONTHLY RATE | LINE 9 x LINE 10 | \$10.22 | \$1.85 | \$1.94 | \$1.52 | \$ 0.92 | \$16.44 |
| 12 | DIRECT COST TO RATE | LINE 9 / LINE 11 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

PHYSICAL COLLOCATION Bell Atlantic - New England FCC - 11

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|----------------|---|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| LINE NO. | ITEM | SOURCE | DEPRECIATION | COST OF | IAX | OTHER TAXES | MAINT. | ADMIN. | TOTAL |
| 1 2 | MASSACHUSETTS BA-NE WEIGHTING | WP 1.0, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26C | \$48.47 0.638 | \$47.01 0.638 | \$19.04 0.638 | \$2.28 0.638 | \$41.72 0.638 | \$33.62 0.638 | \$192.14 |
| 3 | BA-MA WEIGHTED COST | LINE 1 X LINE 2 | \$30.92 | \$29.99 | \$12.15 | \$1.48 | \$26.62 | \$21.45 | 0.638 \$122.58 |
| 4 5 | MAINE BA-NE WEIGHTING | WP 2.0, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26D | \$61.24 0.098 | \$55.82 0.098 | \$22.59 0.098 | \$15.28 0.098 | \$36.92 0.098 | \$32.60 0.098 | \$224.46 0.098 |
| 6 | BA-ME WEIGHTED COST | LINE 4 X LINE 5 | \$8.00 | \$5.47 | \$2.21 | \$1.50 | \$3.62 | \$3.20 | \$22.00 |
| 7 8 9 | NEW HAMPSHIRE BA-NE WEIGHTING BA-NH WEIGHTED COST | WP 3.0, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26E LINE 7 X LINE 8 | \$55.81 0.116 \$6.47 | \$51.73 0.116 \$6.00 | \$20.95 0.116 \$2.43 | \$1.83 0.116 \$0.21 | \$37.68 0.116 \$4.37 | \$31.03 0.116 \$3.60 | \$199.04 0.116 \$23.09 |
| 10 11 12 | RHODE ISLAND BA-NE WEIGHTING BA-RI WEIGHTED COST | WP 4.0, PG 1, LINES 2 THRU 7 <u>WP 6.0, PG 1, LINE 26F</u> LINE 10 X LINE 11 | \$49.22 0.098 \$4.82 | \$47.90 0.098 \$4.69 | \$19.34 0.098 \$1.90 | \$8.77 0.098 \$0.86 | \$30.25 0.098 \$2.96 | \$29.44 0.098 \$2.89 | \$184.93 0.098 \$18.12 |
| 13 14 15 | VERMONT BA-NE WEIGHTING BA-VT WEIGHTED COST | WP 5.0, PG 1, LINES 2 THRU 7 <u>WP 6.0, PG 1, LINE 26G</u> LINE 13 X LINE 14 | \$57.25 0.049 \$2.81 | \$54.15 0.049 \$2.65 | \$21.88 0.049 \$1.07 | \$10.12 0.049 \$0.50 | \$45.30 0.049 \$2.22 | \$35.04 0.049 \$1.72 | \$223.74 0.049 \$10.96 |

BA-NE WORKPAPER 1.8 PAGE 4 OF 4

PHYSICAL COLLOCATION Bell Atlantic - New England FCC - 11

| | A | 8 | <u>c</u> | D | E | £ | <u>Q</u> | Ħ | 1 |
|----------------|--|---|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|------------------------------|
| LINE NO. | ITEM | SOURCE | DEPRECIATION | COST OF | INCOME TAX | OTHER TAXES | MAINT. | ADMIN. | I <u>OTAL</u> |
| 1 2 | MASSACHUSETTS BA-NE WEIGHTING | WP 1.1, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26C | \$48.47 0.638 | \$47.01 0.638 | \$19.04 0.638 | \$2.29 0.638 | \$41.72 0.638 | \$33.62 0.638 | \$192.15 0.638 |
| 3 | BA-MA WEIGHTED COST | LINE 1 X LINE 2 | \$30.93 | \$29.99 | \$12.15 | \$1.46 | \$26.62 | \$21.45 | \$122.59 |
| 4 | MAINE | WP 2.1, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26D | \$61.84 0.098 | \$56.37 0.098 | \$22.81 0.098 | \$15.43 | \$37.28 0.098 | \$32.92 0,098 | \$141.01 |
| 6 | BA-ME WEIGHTING BA-ME WEIGHTED COST | LINE 4 X LINE 5 | \$6.06 | \$5.52 | \$2.24 | 0.098 \$1.51 | \$3.65 | \$3.23 | 0.098 \$22.21 |
| 7 | NEW HAMPSHIRE BA-NE WEIGHTING | WP 3.1, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26E | \$56.22 0.116 | \$52.11 0.116 | \$21.10 0.116 | \$1.85 0.116 | \$37.95 0.116 | \$31.26 0,116 | \$200.50 0.116 |
| 9 | BA-NH WEIGHTED COST | LINE 7 X LINE 8 | \$6.52 | \$6.04 | \$2.45 | \$0.21 | \$4.40 | \$3.63 | \$23.26 |
| 10 11 12 | RHODE ISLAND BA-NE WEIGHTING BA-RI WEIGHTED COST | WP 4.1, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26F LINE 10 X LINE 11 | \$49.40 0.098 \$4.84 | \$48.07 0.098 \$4.71 | \$19.40 0.098 \$1.90 | \$8.80 0.098 \$0.86 | \$30.36 0.098 \$2.98 | \$29.55 0.098 \$2.90 | \$185.57 0.098 \$18.19 |
| | | | \$57.76 | | \$22.08 | \$10.21 | \$45.71 | \$35.35 | \$225.75 |
| 13 14 | VERMONT BA-NE WEIGHTING | WP 5.1, PG 1, LINES 2 THRU 7 WP 6.0, PG 1, LINE 26G | 0.049 | \$54.64 0.049 | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 |
| 15 | BA-VT WEIGHTED COST | LINE 13 X LINE 14 | \$2.83 | \$2.68 | \$1.08 | \$0.50 | \$2.24 | \$1.73 | \$11.06 |

| <u>A</u> | <u>B</u> , | Ē | D | E | <u>E</u> |
|--|----------------------------------|--------|----------|--------------|--------------|
| <u>ITEM</u> | SOURCE | LAND | BLDG | SWITCH EQPT. | TOTAL INVEST |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 1.0, PG 3, LINE 46 | - | • | \$240.50 | \$240.50 |
| 2 EF&I FACTOR - FRC 377C | WP 6.0, PG 1, LINE 24C | - | - | 2.7852 | . 3 7852 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$669.83 | \$669.83 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | • | \$669.83 | \$669.83 |
| 6 LAND INVESTMENT FACTOR | WP 6.0, PG 1, LINE 22C | 0.0000 | - | - | 0.0000 |
| 7 BUILDING INVESTMENT FACTOR | WP 6.0, PG 1, LINE 23C | - | 0.1835 | • | 0.1835 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$0.00 | | • | \$0.00 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$122.91 | • | \$122.91 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$0.00 | \$122.91 | \$669.83 | \$792.75 |
| 11 WEIGHTED UNIT INVESTMENT | LINE 10 x WP 6.0, PG 1, LINE 26C | \$0.00 | \$78.42 | \$427.35 | \$505.77 |

| | A | <u>B</u> | <u>c</u> | ₽ | Ē | E |
|---|--------------------------|---------------------------------|---------------|---------------|----------------|----------------|
| | ITEM | SOURCE | LAND | BLDG | CKT EQPT. | TOTAL INVEST |
| 1 | TOTAL UNIT INVESTMENT | WP 1.0, PG 2 LINE 10 | \$0.00 | \$122.91 | \$669.83 | \$792.75 |
| 2 | DEPRECIATION | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$3.12 | \$45.35 | \$48.47 |
| 3 | COST OF CAPITAL | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$10.30 | \$36.71 | \$47.01 |
| 4 | INCOME TAX | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$4.17 | \$14.87 | \$19.04 |
| 5 | OTHER TAXES | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$2.15 | \$0.13 | \$2.28 |
| 6 | MAINTENANCE | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$4.28 | \$37.44 | \$41.72 |
| 7 | ADMINISTRATION | LINE 1 X WP 6.0 - ACF FACTOR | <u>\$0.00</u> | <u>\$5.22</u> | <u>\$28.40</u> | <u>\$33.62</u> |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.00 | \$29.24 | \$162.90 | \$192.14 |
| g | WEIGHTED UNIT INVESTMENT | LINE 8 x WP 6.0, PG 1, LINE 26C | \$0.00 | \$18.65 | \$103.93 | \$122.58 |

DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

| | <u> </u> | B | <u>c</u> | Q | E | E |
|----------|---------------------------------------|--|------------------|------------------|------------------|------------|
| LINE NO. | item | SOURCE | | | | _ |
| THE HO. | | SOURCE | METRO | URBAN | SUBURBAN | RURAL |
| | Microprocessor Plant (BUSS BAR) AMP | Fast-sast-s | 5 000 | | | |
| 1 2 | Material | Engineering | 5,000 | 2,600 | 2,600 | 1,200 |
| 3 | Unit Investment Per AMP | Engineering | \$22,500 | \$17,000 | \$12,000 | \$9,000 |
| 4 | Statewide Weighting | (L2 / L1) WP 6.0, Pg 1, Lns 27C-30C | \$4.50 0.0772 | \$6.54 0.3518 | \$4.62 0.5123 | \$7.50 |
| | | | | | | 0.0588 |
| 5 | Statewide Unit Investment Per AMP | \$5.45 WP 1.0, PG 3, LINE 10 | \$0.35 | \$2.30 | \$2.36 | \$0.44 |
| | Rectifiers | | | | | |
| 6 | Quantity | Engineering | 5 | 5 | 6 | 5 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 200 |
| 8 | Tot. AMPS | (L6 * L7) | 2,000 | 1,000 | 1,200 | 1,000 |
| 9 | Utilization | (L6-1) / L6) | 80.00% | 80.00% | 83.33% | 80.00% |
| 10 | Material | Engineering | \$43,500 | \$30,000 | \$35,700 | \$30,000 |
| 11 | Total investment | (L10 / L9) | \$54,375 | \$37,500 | \$42,840 | \$37,500 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.19 | \$37.50 | \$35.70 | \$37.50 |
| 13 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 14 | Statewide Unit Investment Per AMP | \$35.78 | \$2.10 | \$13.19 | \$18.29 | \$2.20 |
| | <u>Batteries</u> | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 4 | 3 |
| 16 | AMPs per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 ° L16) | 2,064 | 930 | 1,240 | 930 |
| 18 | Total Investment | Engineering | \$98,500 | \$40,500 | \$52,900 | \$40,500 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$47.72 | \$43.55 | \$42.66 | \$43.55 |
| 20 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 21 | Statewide Unit Investment Per AMP | \$43.42 | \$3.68 | \$15.32 | \$21.86 | \$2.56 |
| | Automatic Breaker | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 26 | Statewide Unit Investment Per AMP | \$39.49 | \$2,41 | \$11.73 | \$22.41 | \$2.94 |
| | Power Distribution Service Cabinet | | | | | |
| 27 | Amps | Engineering | 800 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$7,000 | \$4,000 | \$3,700 | \$2,700 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.75 | \$5.00 | \$9.25 | \$6.75 |
| 30 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 31 | Statewide Unit Investment Per AMP | \$7.57 | \$0.68 | \$1.76 | \$4.74 | \$0.40 |
| | Emergency engine/turbine (auto start) | | | | | |
| 22 | | Engineering | 1 505 | 1 216 | 929 | 278 |
| 32 | AMP Capacity Utilization | Engineering Engineering | 1,505 70% | 1,216 70% | 868 70% | 278 70% |
| 33 | | (L32 * L33) | 1,054 | 851 | 608 | 195 |
| 34 35 | Utilized AMPS Emerg, Engine Invest. | Engineering | \$75,600 | \$38,200 | \$34,000 | \$21,500 |
| 36 | Conduit/Emer Lights | Engineering | \$35,000 | \$30,000 | \$25,000 | \$20,000 |
| 37 | Total Investment | (L35 + L36) | \$110,600 | \$68,200 | \$59,000 | \$41,500 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$104.98 | \$80.12 | \$97.10 | \$213.26 |
| 39 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 40 | Statewide Unit Investment Per AMP | \$98.56 | \$8.10 | \$28.18 | \$49.75 | \$12.53 |
| | Battery Distribution Fuse Bay | | | | | |
| 41 | AMP Capacity | Engineering | 800 | 800 | 800 | 800 |
| 42 | Material | Engin eering | \$8,181 | \$8,181 | \$8,181 | \$8,181 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$10.23 | \$10.23 | \$10.23 | \$10.23 |
| 44 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 45 | Statewide Unit Investment Per AMP | \$10.23 | \$0.79 | \$3.60 | \$5.24 | \$0.60 |
| | Total Unit Investment - (Less than or | | | | | |
| 46 | Equal to 60 AMP's) - Sum Lines | \$240.50 | | | | |
| 40 | • | 9240.00 | | | | |
| | (5C+14C+21C+26C+31C+40C+45C) | | | | | |

| | <u>A</u> | <u>B</u> , | Ç | D | Ē | <u>F</u> |
|----|--------------------------------------|----------------------------------|--------|----------|--------------|--------------|
| | ITEM | SOURCE | LAND | BLDG | SWITCH EOPT. | TOTAL INVEST |
| 1 | TOTAL POWER PLANT UNIT INVESTMENT | WP 1.1, PG 3, LINE 46 | - | - | \$240.51 | \$240.51 |
| 2 | EF&I FACTOR - FRC 377C | WP 6.0, PG 1, LINE 24C | - | - | 2.7852 | 2.7852 |
| 3 | INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$669.87 | \$669.87 |
| 4 | UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 | TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | • | - | \$669.87 | \$669.87 |
| 6 | LAND INVESTMENT FACTOR | WP 6.0, PG 1, LINE 22C | 0.0000 | • | - | 0.0000 |
| 7 | BUILDING INVESTMENT FACTOR | WP 6.0, PG 1, LINE 23C | • | 0.1835 | - | 0.1835 |
| 8 | LAND INVESTMENT | LINE 5E x LINE 6C | \$0.00 | | - | \$0.00 |
| 9 | BUILDING INVESTMENT | LINE 5E × LINE 7D | - | \$122.92 | • | \$122.92 |
| 10 | TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$0.00 | \$122.92 | \$669.87 | \$792.79 |
| 1 | WEIGHTED UNIT INVESTMENT | LINE 10 x WP 6.0, PG 1, LINE 26C | \$0.00 | \$78.42 | \$427.38 | \$505.80 |

| | ' <u>A</u> | <u>B</u> | Ē | D | Ē | <u>E</u> |
|---|--------------------------|---------------------------------|--------|---------------|----------------|------------------|
| | <u>ITEM</u> | SOURCE | LAND | BLDG | CKT EQPT. | TOTAL INVEST |
| 1 | TOTAL UNIT INVESTMENT | WP 1.1, PG 2 LINE 10 | \$0.00 | \$122.92 | \$669.87 | \$792.79 |
| 2 | DEPRECIATION | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$3.12 | \$45.35 | \$48.47 |
| 3 | COST OF CAPITAL | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$10.30 | \$36.71 | \$47.01 |
| 4 | INCOME TAX | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$4.17 | \$14.87 | \$19.04 |
| 5 | OTHER TAXES | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$2.15 | \$0.13 | \$2.29 |
| 6 | MAINTENANCE | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$4.28 | \$37.45 | \$41.72 |
| 7 | ADMINISTRATION | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | <u>\$5.22</u> | <u>\$28.40</u> | \$33.62 |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.00 | \$29.24 | \$162.91 | \$192.15 |
| 9 | WEIGHTED UNIT INVESTMENT | LINE 8 x WP 6.0, PG 1, LINE 26C | \$0.00 | \$18.65 | \$103.94 | \$122 .59 |

DC POWER COST DEVELOPMENT - GREATER THAN 60 AMPS

| | <u> </u> | The state of the s | | | | |
|----------|--|--|-------------------|---------------------|---------------------|---------------------|
| | A | B | Ç | ₽ | £ | E |
| LINE NO. | ITEM | SOURCE | METRO | URBAN | SUBURBAN | RURAL |
| | Microprocessor Plant (BUSS BAR) | | | | | |
| 1 | AMP | Engineering | 5.000 | 2,600 | 2,600 | 1,200 |
| 2 | Material | Engineering | \$22,500 | \$17,000 | \$12,000 | \$9,000 |
| 3 | Unit Investment Per AMP | (L2/L1) | \$4.50 | \$6.54 | \$4.62 | \$7.50 |
| 4 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 5 | Statewide Unit Investment Per AMP | \$5.45 | \$0.35 | \$2.30 | \$2.36 | \$0.44 |
| • | Oldiowide Still Wilderick For 74th | 00:40 | 40.00 | 62 .00 | 92.00 | •0.44 |
| | Rectifiers | | | | | |
| 6 | Quantity | Engineering | 5 | 5 | 6 | 5 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 200 |
| 8 9 | Tot. AMPS Utilization | (L6 * L7) | 2,000 80.00% | 1,000 80.00% | 1,200 83.33% | 1,000 80.00% |
| 10 | Material | (L6-1) / L6) Engin ee ring | \$43,500 | \$30,000 | \$35,700 | \$30,000 |
| 11 | Total Investment | (L10 / L9) | \$54,375 | \$37,500 | \$42,840 | \$37,500 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.19 | \$37.50 | \$35.70 | \$37.50 |
| 13 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 14 | Statewide Unit Investment Per AMP | \$35.78 | \$2.10 | \$13.19 | \$18.29 | \$2.20 |
| | | <u></u> | | | | |
| | <u>Batteries</u> | <u>.</u> | _ | _ | | _ |
| 15 | Strings | Engineering | 3 | 3 | 4 | 3 |
| 16 | AMPs per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 2,064 \$98,500 | 930 | 1,240 | 930 |
| 18 19 | Total Investment Unit Investment Per AMP | Engineering (L18 / L17) | \$47.72 | \$40,500 \$43.55 | \$52,900 \$42.66 | \$40,500 \$43.55 |
| 20 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| | | | | | | |
| 21 | Statewide Unit Investment Per AMP | \$43.42 | \$3.68 | \$15.32 | \$21.86 | \$2.56 |
| | Automatic Breaker | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 26 | Statewide Unit Investment Per AMP | \$39.49 | \$2.41 | \$11.73 | \$22.41 | \$2.94 |
| | Power Distribution Service Cabinet | | | | | |
| 27 | Amps | Engineering | 800 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$7,000 | \$4,000 | \$3,700 | \$2,700 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.75 | \$5.00 | \$9.25 | \$6.75 |
| 30 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 31 | Statewide Unit Investment Per AMP | \$7.57 | \$0.68 | \$1.76 | \$4.74 | \$0.40 |
| | | | | | | |
| | Emergency engine/turbine (auto start) | F (++) | 4 505 | 4 246 | 000 | 278 |
| 32 | AMP Capacity | Engineering | 1,505 | 1,216 | 868 70% | 278 70% |
| 33 | Utilization | Engineering | 70% 1,054 | 70 % 851 | 608 | 195 |
| 34 35 | Utilized AMPS Emerg, Engine Invest. | (L32 * L33) | \$75,600 | \$38,200 | \$34,000 | \$21,500 |
| 35 36 | Conduit/Emer Lights | Engineering Engineering | \$35,000 | \$30,000 | \$25,000 | \$20,000 |
| 36 37 | Total investment | (L35 + L36) | \$110,600 | \$68,200 | \$59,000 | \$41,500 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$104.98 | \$80.12 | \$97.10 | \$213.26 |
| 39 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 40 | Statewide Unit Investment Per AMP | \$98.56 | \$8.10 | \$28.18 | \$49.75 | \$12.53 |
| | | | | | | |
| | Power Plant Distribution Bay | | | | 4.000 | 200 |
| 41 | AMP Capacity | Engineering | 2,600 | 1,200 | 1,200 | 300 |
| 42 | Material | Engineering | \$20,000 | \$15,000 | \$10,000 | \$5,000 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$7.69 | \$12.50 0.2518 | \$8.33 0.6123 | \$16.67 0.0698 |
| 44 | Statewide Weighting | WP 6.0, Pg 1, Lns 27C-30C | 0.0772 | 0.3518 | 0.5123 | 0.0588 |
| 45 | Statewide Unit Investment Per AMP | \$10.24 | \$0.59 | \$4.40 | \$4.27 | \$0.98 |
| 46 | Total Unit Investment - (Less than or | | | | | |
| | Equal to 60 AMP's) - Sum Lines | \$240.51 | | | | |
| | (FC+14C+21C+26C+21C+40C+45C) | <u> </u> | | | | |

(5C+14C+21C+26C+31C+40C+45C)

PHYSICAL COLLOCATION Bell Atlantic - Maine FCC - 11

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|--|----------------------------------|--------|----------|--------------|--------------|
| ITEM | SOURCE | LAND | BLDG | SWITCH EQPT. | TOTAL INVEST |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 2.0, PG 3, LINE 46 | • | • | \$309.69 | \$309.69 |
| 2 EF&I FACTOR - FRC 377C | WP 6.0, PG 1, LINE 24D | - | - | 2.7852 | 2.7852 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$862.54 | \$862.54 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$862.54 | \$862.54 |
| 6 LAND INVESTMENT FACTOR | WP 6.0, PG 1, LINE 22D | 0.0000 | - | - | 0.0000 |
| 7 BUILDING INVESTMENT FACTOR | WP 6.0, PG 1, LINE 23D | - | 0.1167 | - | 0.1167 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$0.00 | | - | \$0.00 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$100.66 | - | \$100.66 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$0.00 | \$100.66 | \$862.54 | \$963.20 |
| 11 WEIGHTED UNIT INVESTMENT | LINE 10 x WP 6.0, PG 1, LINE 26D | \$0.00 | \$9.86 | \$84.53 | \$94.39 |

PHYSICAL COLLOCATION Bell Atlantic - Maine FCC - 11

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|---|--------------------------|---------------------------------|---------------|---------------|----------------|----------------|
| | ITEM | SOURCE | LAND | BLDG | CKT EQPT. | TOTAL INVEST |
| 1 | TOTAL UNIT INVESTMENT | WP 2.0, PG 2 LINE 10 | \$0.00 | \$100.66 | \$862.54 | \$963.20 |
| 2 | DEPRECIATION | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$2.59 | \$58.65 | \$61.24 |
| 3 | COST OF CAPITAL | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$8.29 | \$47.53 | \$55.82 |
| 4 | INCOME TAX | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$3.35 | \$19.23 | \$22.59 |
| 5 | OTHER TAXES | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$1.57 | \$13.71 | \$15.28 |
| 6 | MAINTENANCE | LINE 1 X WP 6.0 - ACF FACTOR | \$0.00 | \$8.55 | \$28.38 | \$36.92 |
| 7 | ADMINISTRATION | LINE 1 X WP 6.0 - ACF FACTOR | <u>\$0.00</u> | <u>\$3.36</u> | <u>\$29.24</u> | <u>\$32.60</u> |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.00 | \$27.71 | \$196.75 | \$224.46 |
| 9 | WEIGHTED UNIT INVESTMENT | LINE 8 x WP 6.0, PG 1, LINE 26D | \$0.00 | \$2.72 | \$19.28 | \$22.00 |

PHYSICAL COLLOCATION Bell Atlantic - Maine FCC NO. 11

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DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

| | <u> </u> | B | ç | D | E |
|-------------|---------------------------------------|----------------------------|----------------------|----------------------|----------------------|
| LINE NO. | <u>ITEM</u> | SOURCE | URBAN | SUBURBAN | RURAL |
| CHE NO. | | SOURCE | VIDAN | SOUTH | NONAL |
| | Microprocessor Plant (BUSS BAR) AMP | Engineering | 2.600 | 2 600 | 1 200 |
| 1 2 | AMF Material | Engineering Engineering | \$17,000 | 2,600 \$12,000 | 1,200 \$9,000 |
| 3 | Unit investment Per AMP | (L2 / L1) | \$6.54 | \$4.62 | \$7.50 |
| 4 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 5 | Statewide Unit Investment Per AMP | \$6.36 | \$0.57 | \$1.69 | \$4.11 |
| | | | | | |
| • | Rectifiers | F: | _ | | |
| 6 7 | Quantity AMPS per unit | Engineering Engineering | 5 200 | 6 200 | 5 200 |
| 8 | Tot. AMPS | (L6 * L7) | 1.000 | 1,200 | 1,000 |
| 9 | Utilization | (L6-1) / L6) | 80.00% | 83.33% | 80.00% |
| 10 | Material | Engineering | \$30,000 | \$35,700 | \$30,000 |
| 11 | Total Investment | (L10 / L9) | \$37,500 | \$42,840 | \$37,500 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$37.50 | \$35,70 | \$37.50 |
| 13 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 14 | Statewide Unit Investment Per AMP | \$36.84 | \$3.25 | \$13.07 | \$20.53 |
| | <u>Batteries</u> | | | | |
| 15 | Strings | Engineering | 3 | 4 | 3 |
| 16 | AMPs per String | Engineering | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 ° L16) | 930 | 1,240 | 930 |
| 18 | Total investment | Engineering | \$40,500 | \$52,900 | \$40,500 |
| . 19 | Unit Investment Per AMP | (L18 / L17) | \$43.55 | \$42.66 | \$43.55 |
| 20 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 21 | Statewide Unit Investment Per AMP | \$43.23 | \$3.77 | \$15.61 | \$23.84 |
| | Automatic Breaker | | | | |
| 22 | AMP per Breaker | Engineering | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 26 | Statewide Unit Investment Per AMP | \$46.27 | \$2.89 | \$16.01 | \$27.38 |
| | Power Distribution Service Cabinet | | | | |
| 27 | Amps | Engineering | 800 | 400 | 400 |
| 28 | Material | Engineering | \$4,000 | \$3,700 | \$2,700 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$5.00 | \$9.25 | \$6.75 |
| 30 | Statewide Weighting | WP 6.0, Pg 1, Lns 280-30D | 0.0866 | 0.3660 | 0.5475 |
| 31 | Statewide Unit Investment Per AMP | \$7.51 | \$0.43 | \$3.39 | \$3.70 |
| | Emergency engine/turbine (auto start) | | | | |
| 32 | AMP Capacity | Engineering | 1,216 | 868 | 278 |
| 33 | Utilization | Engineering | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 851 | 608 | 195 |
| 35 | Emerg. Engine Invest. | Engineering | \$38,200 \$30,000 | \$34,000 \$25,000 | \$21,500 \$20,000 |
| 36 37 | Conduit/Emer Lights Total Investment | Engineering (L35 + L36) | \$68,200 | \$59,000 \$59,000 | \$41,500 |
| 3/ 38 | Unit Investment Per AMP | (L37 / L34) | \$80.12 | \$97.10 | \$213.26 |
| 39 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 40 | Statewide Unit Investment Per AMP | \$159.24 | \$6.94 | \$35.54 | \$116.76 |
| | Battery Distribution Fuse Bay | | | | |
| 41 | AMP Capacity | Engineering | 800 | 800 | 800 |
| 42 | Material | Engineering | \$8,181 | \$8,181 | \$8,181 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$10.23 | \$10.23 | \$10.23 |
| 44 | Statewide Weighting | WP 6.0, Pg 1, Lns 28D-30D | 0.0866 | 0.3660 | 0.5475 |
| 45 | Statewide Unit Investment Per AMP | \$10.23 | \$0.89 | \$3.74 | \$5.60 |
| | Total Unit Investment - (Less than or | | | | |
| 46 | Equal to 60 AMP's) - Sum Lines | \$309.69 | | | |
| ·- <u>-</u> | (5C+14C+21C+26C+31C+40C+45C) | | | | |
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PHYSICAL COLLOCATION Bell Atlantic - Maine FCC - 11

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|--|----------------------------------|--------|----------|--------------|--------------|
| ITEM | SOURCE | LAND | BLDG | SWITCH EQPT. | TOTAL INVEST |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 2.0, PG 3, LINE 46 | - | • | \$312.72 | \$312.72 |
| 2 EF&I FACTOR - FRC 377C | WP 6.0, PG 1, LINE 24D | • | - | 2.7852 | 2.7852 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$870.98 | \$870.98 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 × LINE 4 | - | - | \$870.98 | \$870.98 |
| 6 LAND INVESTMENT FACTOR | WP 6.0, PG 1, LINE 22D | 0.0000 | - | - | 0.0000 |
| 7 BUILDING INVESTMENT FACTOR | WP 6.0, PG 1, LINE 23D | - | 0.1167 | - | 0.1167 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$0.00 | | - | \$0.00 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$101.64 | - | \$101.64 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$0.00 | \$101.64 | \$870.98 | \$972.62 |
| 11 WEIGHTED UNIT INVESTMENT | LINE 10 x WP 6.0, PG 1, LINE 26D | \$0.00 | \$9.96 | \$85.36 | \$95.32 |